10/670,132

**Filed** 

: September 24, 2003

## AMENDMENTS TO THE CLAIMS.

1. (Currently amended) An aryl aminofunctional silane compound having the formula:

R-C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Si(OR<sup>2</sup>)<sub>3-n and/or HCl salts thereof</sub>

wherein R is an alkyl group having  $1 \ 2$  to 6 carbon atoms;  $R^1$  is an alkyl group having 1 to 6 carbon atoms;  $R^2$  may be the same or different and are independently selected from alkyl groups having 1 to 6 carbon atoms; and n has a value of 0 or 1.

- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Original) An aryl aminofunctional silane compound according to claim 1 wherein  $R=CH_3$  and  $R^2=C_2H_5$ , and n=0

and the HCl salt thereof, wherein methyl group is *ortho-*, *meta-*, or *para-*substituted or mixtures thereof.

5. (Currently amended) An aryl aminofunctional silane compound according to claim 1 wherein  $R=C_2H_5$ ,  $R^2=CH_3$ , and n=0

and the HCl salt thereof, wherein methyl ethyl group is ortho-, meta-, or parasubstituted or mixtures thereof.

6. (Currently amended) An aryl aminofunctional silane compound according to claim 1 wherein  $R=C_2H_5$ ,  $R^2=C_2H_5$ , and n=0

$$-\mathsf{CH_2NHCH_2CH_2NHCH_2CH_2Si(OCH_2CH_3)_3}$$
 
$$+\mathsf{H_3CH_2C}$$

: 10/670,132

**Filed** 

September 24, 2003

and the HCl salt thereof, wherein methyl ethyl group is ortho-, meta-, or parasubstituted or mixtures thereof.

7. (Currently amended) An aryl aminofunctional silane compound according to claim 1 wherein  $R=C_3H_7$ ,  $R^2=CH_3$ , and n=0

and the HCl salt thereof, wherein methyl propyl group is ortho-, meta-, or parasubstituted or mixtures thereof.

8. (Currently amended) An aryl aminofunctional silane compound according to claim 1 wherein  $R=C_3H_7$ ,  $R^2=C_2H_5$ , and n=0

and the HCl salt thereof, wherein methyl propyl group is ortho-, meta-, or parasubstituted or mixtures thereof.

9. (Currently amended) An aryl aminofunctional silane compound according to elaim1 claim 19 wherein R=CH<sub>3</sub>, R<sup>1</sup>= CH<sub>3</sub>, R<sup>2</sup>= CH<sub>3</sub>, and n=1

and the HCl salt thereof, wherein methyl group is *ortho-*, *meta-*, or *para-*substituted or mixtures thereof.

10. (Currently amended) An aryl aminofunctional silane compound according to elaim1 claim 19 wherein R=CH<sub>3</sub>, R<sup>1</sup>= CH<sub>3</sub>, R<sup>2</sup>= C<sub>2</sub>H<sub>5</sub>, and n=1

$$\begin{array}{c} \text{CH}_{3} \\ \text{CH}_{2}\text{NHCH}_{2}\text{CH}_{2}\text{NHCH}_{2}\text{CH}_{2}\text{CH}_{2}\text{Si}(\text{OCH}_{2}\text{CH}_{3})_{2} \\ \end{array}$$

and the HCl salt thereof, wherein methyl group is *ortho-*, *meta-*, or *para-*substituted or mixtures thereof.

10/670,132

Filed

**September 24, 2003** 

11. (Currently amended) An aryl aminofunctional silane compound according to elaim1 claim 19 wherein  $R=C_2H_5$ ,  $R^1=CH_3$ ,  $R^2=CH_3$ , and n=1

$$\begin{array}{c} \text{CH}_3\\ \text{CH}_2\text{NHCH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_3)_2 \\ \text{H}_3\text{CH}_2\text{C} \end{array}$$

and the HCl salt thereof, wherein methyl ethyl group is ortho-, meta-, or parasubstituted or mixtures thereof.

12. (Currently amended) An aryl aminofunctional silane compound according to claim1 claim 19 wherein  $R=C_2H_5$ ,  $R^1=CH_3$ ,  $R^2=C_2H_5$ , and n=1

and the HCl salt thereof, wherein methyl ethyl group is ortho-, meta-, or parasubstituted or mixtures thereof.

13. (Currently amended) An aryl aminofunctional silane compound according to claim 19 wherein R=C<sub>3</sub>H<sub>7</sub>, R<sup>1</sup>= CH<sub>3</sub>, R<sup>2</sup>= CH<sub>3</sub>, and n=1

and the HCl salt thereof, wherein methyl propyl group is ortho-, meta-, or parasubstituted or mixtures thereof.

14. (Currently amended) An aryl aminofunctional silane compound according to elaim1 claim 19 wherein  $R=C_3H_7$ ,  $R^1=CH_3$ ,  $R^2=C_2H_5$ , and n=1

$$\begin{array}{c} \text{CH}_3\\ \text{CH}_2\text{NHCH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_2\text{CH}_3)_2} \\ \text{H}_3\text{CH}_2\text{CH}_2\text{C} \end{array}$$

and the HCl salt thereof, wherein methyl propyl group is ortho-, meta-, or parasubstituted or mixtures thereof.

15. (Original) A water-resistant substrate, comprising a glass fabric coated with at least one compound according to Claim 1.

10/670,132

Filed

**September 24, 2003** 

16. (Original) A water-resistant substrate according to Claim 15, wherein the coating amount of the compound is about 0.05 to 0.2% by weight based on the weight of glass fabric.

- 17. (Original) A water-resistant substrate according to Claim 15, wherein the coating amount of the compound is about 0.065 to 0.15% by weight based on the weight of glass fabric.
  - 18. (Original) A method of preparing a substrate, comprising:
    applying at least one compound according to Claim 1 to a glass fabric to form a coated glass fabric; and

applying the coated fabric to an epoxy laminate thereby reinforcing the laminate.

19. (New) An aryl aminofunctional silane compound having the formula:

R<sup>1</sup>n

R-C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Si(OR<sup>2</sup>)<sub>3-n</sub> and/or HCl salts thereof

wherein R is an alkyl group having 1 to 6 carbon atoms;  $R^1$  is an alkyl group having 1 to 6 carbon atoms;  $R^2$  may be the same or different and are independently selected from alkyl groups having 1 to 6 carbon atoms; and n has a value of 1.

- 20. (New) A water-resistant substrate, comprising a glass fabric coated with at least one compound according to Claim 19.
- 21. (New) A water-resistant substrate according to Claim 20, wherein the coating amount of the compound is about 0.05 to 0.2% by weight based on the weight of glass fabric.
- 22. (New) A water-resistant substrate according to Claim 20, wherein the coating amount of the compound is about 0.065 to 0.15% by weight based on the weight of glass fabric.
  - 23. (New) A method of preparing a substrate, comprising:
    applying at least one compound according to Claim 19 to a glass fabric to form a
    coated glass fabric; and

applying the coated fabric to an epoxy laminate thereby reinforcing the laminate.